

SUBSTITUTE SHEET (RULE 26)

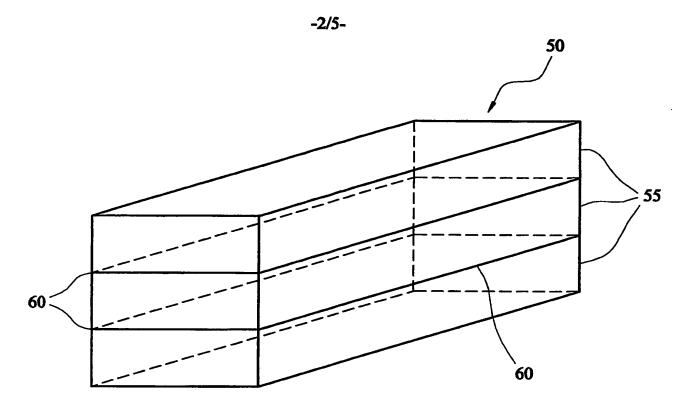


FIG. 3

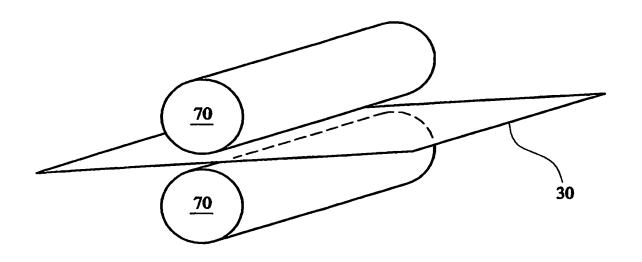


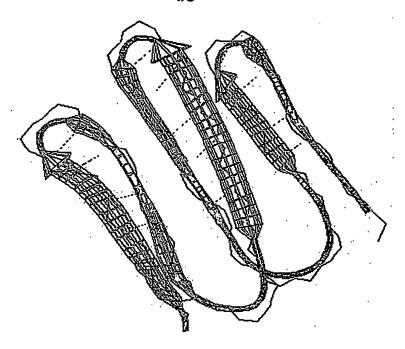
FIG. 4

## Consenus repeat structure of serioin precursor protein

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No.	of	Кереа	ats Tota	1 Score	Length	Diagonal	BW-From	BW-To	Level
			7	529.97	95	35	317]	351	1
1.	31-	164	(46.31/	7.35)	SSSSSST	se688S	eeraaestt	asentdere	NSA
1	65-	202	(82.44/	20.60)	GSSTSGG.	RRTYGYSSI	nerdosvesto	esentdens	ena
2	03-	240	(83.27/	20.91)	GSSTEGG.	esyoyes	NSRDGSV\$T <b>T</b> C	issentdene	vên
24	41-	278	(68.12/	15.35)	GSRRSGG.	.esanedsa.	CÊRDENVETTG	:Sasntdsns	nsv
2	79-	316	(82.44/2	20.60)	GSSTSGG.	RRTYGYSSI	NERDGSV88TG	sesntdens	nsv
3:	<b>17</b> -	354	(84.15/2	21.23)	GSSTSGG.	. Setygyesi	nerdgeveetg	Seentdens	nsa
3	55~	389	(83.23/2	30.90	CSETEGG.	. SSTYGYSSI	SHDG8V88TG	enectnees	

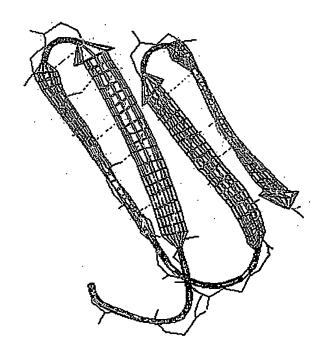
FIG. 5

**-4/5-**



Ice nucleation protien (inaz) from the published PDB file

FIG. 6



Swiss model for consensus sequence of sericin precursor protein using inaz as a template

FIG. 7

**SUBSTITUTE SHEET (RULE 26)** 

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The best LALIGN alignment of sericin precursor protein with INAC.

24.4% identity in 336 aa overlap; score: 265 B(10,000): 4.9e-16 stgtagadssliagygstqtsgsessltagygstqtaregstltagygstgtagadssli :.:. : : : ::::. :.. :... . . . . . : : . . . serici sagahraksveqsqdkskytsgpegvstsgrsqnykdskqalisggtkssnsnvqsdbks INAZ AGYGSTQTSGSESSLTAGYGSTQTAQQGSVLTSGYGSTQTAGAASNLTTGYGSTGTAGHE serici ASQSSSSRSSQESASYSSSSSSTEESSSSSRAASSTDASSNTDSNSNSAGSSTSGGRR INAZ SFIIAGY---GSTQTAGHKSILTAGYGSTQTARDGSDLIAGYGSTGTAGS----GSSLIA ::...: .. ... .. .:.. ::.:. :: serici TYGYSSNSRDGSVSSTGSSSNTDSNSSNAGSSTSGGSSTYGYSSNSRDGSVSTTGSSSNT 710 720 INAZ GYGSTQTASYREMLTAGYGSTQTAREHSDLVTGYGSTSTAGSNSSLIAGYGSTQTAGFKS ..... :: .... ... .:... .:: .:.. ..:: . . :. .: :..: serici DSNSNSVGSRRSGGSSSHEDSSKSRDENVSTTGSSSNTDSNSNSVGSSTSGGRRTYGYSS 250 260 

## FIG. 8